navigator

DUOPLAST

Three-pack chemically cured road marking

Symbol : **24.30.12-50.00**
Standard: **ZN-PCW-1176:2002 Ak.00**

Certification: **IBDiM** technical approval No. AT/2006-03-0986
PZH HK/B/2584/01/2000

Properties:	Duplast is a three-pack coating comprising component A, component B and U-30 peroxide hardener for road markings. Components A and B are a mixture of pigments and fillers suspended in a methacrylate resin solution containing extra additives.
Range of application:	The coating is used for making horizontal road markings on asphalt or concrete substrate streets and roads, yards, parking lots etc. Due to the very high durability of the coating it is recommended that it be used in areas with intensive traffic.
Application methods:	The coating should be applied with a hydrodynamic application machine equipped with a twin-pump system with separate circuits for component A and B and an application gun with a static mixer.
Consumption:	0,4-0,5 kg per square meter for each component. (4dm^2/dm^3 if both components applied to form a 500µm wet coat.)
Functional properties:	The marking is characterised by a short drying time, high density and very good coverage. It adheres well to the substrate, is highly resistant to abrasion and conditions of atmospheric exposure, maintains its reflective properties for a long time and has good roughness and whiteness. The marking is environmentally friendly – only a minimal release of solvents into the atmosphere occurs when used, hence the film thickness of both the dry and freshly applied coating remains the same. **General technical information:** Colour — white Density in 20^{0}C [g/cm3] 1,65÷1,75 Flow time [s] 60 – 80 (Ford cup ϕ6mm at 20^{0}C) Dry for launching [%] 2-10 (depending on the air temperature and amount of hardener added)
Application method:	Before use both components A and B need to be carefully mixed in their original packagings using different paddles. Component A then has to be poured into a proper container in the application machine. Next, slowly add the hardener to the packaging containing component B, then mix and add to the other container in the application machine. The amount of the hardener added depends on the air temperature: if it is below 20^{0}C add 5% w/w (compared to component B), in temperatures over 20^{0}C add 4% w/w, and in temperatures close to 30^{0}C , 3% of the hardener relative to component B should be added.

	Apply the marking onto dry, clean and coherent substrates using a hydrodynamic application machine equipped with a twin-pump system with separate circuits for component A and B and an application gun with a static mixer. The components are to be applied in a 1:1 ration (by weight). After every operation or when the machine is not working during a break lasting over 2 minutes, the elements of the machine proper to both the components have to be cleaned with a portion of 300 ml of the WPZ 11 solvent for road markings. The marking is to be applied at an air temperature of 5-30°C and at a relative humidity of the air not exceeding 80%. The paint cannot be applied in conditions of fog or dew. The paint can be applied using pneumatic or hydrodynamic application machines. To give the paint reflective properties, 300-500 g of Sovitec or Interminglass size 400-840µm beads should be applied on each square meter immediately using an application gun.
Note	-do not thin either of the components. Before filling the containers of the application machine check to see if they are clean and remove any residual solvent left inside after cleaning. - during all operations involving the use of component A or B, all measures have to be taken to ensure that even the slightest interaction between the components does not take place as it might cause them to destabilise, gel or harden e.g.: do not use one stirrer, do not use the same portion of solvent for cleaning circuits A and B. - It is recommended that the tank of the application machine be filled with such an amount of ingredients that will be used up completely during application. **- The hardener is to be added only to component B.**
Packaging:	30 kilogram metal buckets.
Warranty:	9 months from the production date if stored in its original packaging at temperatures not exceeding 35^{o}C and not exposed to direct sunlight.
H&S and fire safety guidelines:	The paint is highly flammable and contains hazardous volatile solvents, that is why during application general H&S and fire safety regulations have to be followed . In particular it is forbidden to smoke cigarettes or consume food during application. The paint has to be stored in tightly sealed packagings, away from any sources of fire, heat and direct sunlight exposure. For more detailed information refer to the Material Safety Data Sheet.

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